GENERIC NAME OF BSA	LEC BSA NAME
Category 4 - Dedicated Network Access Link BSA	AM - Dedicated Network Access Link AM - Type A-Signal Transfer Point Access (STP) AM - Type B-Circuit Switch Facility Control (CSFC) AM - Type C-Simplified Message Desk Interface (SMDI) AM - Type D-Simplified Message Desk Interface-Expanded (SMDI-E) AM - Type E-Ameritech Reconfiguration Service AM - Type F-Alarm Service AM - Type G-Ameritech Switch to Computer Applications (ASCAI) BA - Dedicated Network Access Link BS - Private Line/Special Access NX - (see NYNEX note 2)[2] PB - Dedicated Network Access Link SWB - Special Access - Metallic SWB - Special Access - Voice Grade SWB - Switched Access Dedicated Network Access Link USW - Analog PLS

[2] NYNEX note 2: NYNEX offers dedicated channels for specific network information or network control information as part of the appropriate BSA or BSE that provides the specific capability.

MATRIX of BSAs & RELATED BSEs

CATEGORY 1, TYPE A - CIRCUIT SWITCHED LINE BSA	AM	BA	BS	NX	PB	SWB	USW
GENERIC NAME OF ONA SERVICE							
Answer Supervision With A Line Side Interface	BSE	BSE	BSE		BSE		BSE
Automatic Callback					BSE		
Call Detail Recording Reports	BSE	BSE	BSE	BSE			BSE
Called Directory Number Delivery via DID		BSE	BSE	BSE	BSE		BSE
Calling Directory Number Delivery - via ICLID		BSE			BSE		BSE
Carrier Selection On Reverse Charge		BSE	BSA	BSE	BSA		
Calling DN Delivery - via BCLID		BSE	BSE				BSE
Coin Phone With Post Dialing Tone Capability		BSA	BSA				BSA
Cut Off On Disconnect		BSA	BSA	BSA			
DID Trunk Queuing		BSE			BSE		
Faster Signaling On DID		BSE	BSE	BSE			BSA
Hot Line				BSE			
Make Busy Key	BSE	BSE	BSE	BSE	BSE		BSE
Message Desk (SMDI)	BSE	BSE	BSE	BSE	BSE		BSE
Message Waiting Indicator- Activation (Audible)		BSE	BSE	BSE	BSE		BSE
Multiline Hunt Group	BSE	BSE	BSE	BSE	BSE	BSE	BSE
Multiline Hunt Group - C. O. Announcements	BSE	BSE	BSE	BSE	BSE	BSE	BSE
Multiline Hunt Group - Individual Access To Each Port In Hunt Group	BSE	BSE	BSE	BSE	BSE	BSE	BSE
Multiline Hunt Group - Overflow	BSE	BSE	BSE	BSE	BSE		BSE
Multiline Hunt Group - Uniform Call Distribution Line Hunting	BSE	BSE	BSE	BSE	BSE	BSE	BSE
Multiline Hunt Group - UCD With Queuing	BSE	BSE	BSE	BSE	BSE	BSE	BSE
Reverse Billing On Circuit Switched Access	BSE		BSE				
Route Diversity	BSE					BSE	

CATEGORY 1, TYPE A - CIRCUIT SWITCHED LINE BSA	AM	BA	BS	NX	PB	SWB	USW
GENERIC NAME OF ONA SERVICE							
Selective Call Forwarding					BSE		
Selective Call Rejection					BSE		
Three Way Call Transfer	BSE	BSE	BSE	BSE	BSE		BSE
Uniform 7 Digit Access Number - Remote Call Forwarding		BSE					
Uniform 7 Digit Access Number via Overlay Networking			BSE				
Warm Line				BSE			

CATEGORY 1, TYPE B - CIRCUIT SWITCHED TRUNK BSA	AM	BA	BS	NX	PB	SWB	USW
GENERIC NAME OF ONA SERVICE							
Alternate Routing	BSA*	BSE	BSE	BSE	BSA	BSE	BSE
Call Detail Recording Reports	BSE	BSE	BSE				BSE
Called Directory Number Delivery via DID		BSE	BSE	BSE	BSE		BSE
Called Directory Number Delivery via 900NXX	BSE			BSE		BSA	
Calling Billing Number Delivery - FG B Protocol		BSE	BSE	BSE			BSE
Calling Billing Number Delivery - FG D Protocol	BSE	BSE	BSE	BSE	BSE	BSE	BSE
Carrier Selection On Reverse Charge	BSA**	BSE	BSA	BSE	BSA		BSA
Coin Phone With Post Dialing Tone Capability			BSA				
DID Trunk Queuing		BSE			BSE		BSE
Faster Signaling On DID			BSE	BSE			BSA
Flexible ANI Information Digits	BSE	BSE	BSE	BSE			BSE
Route Diversity	BSE					BSE	
Tandem Routing	BSA**	BSE	BSE	BSA	BSA		BSA

* Ameritech offers this as a BSA feature.

** For Ameritech, this is a Circuit Switched Trunk BSA alternative.

CATEGORY 2, TYPE A - X.25 PACKET SWITCHED BSA	AM	BA	BS	NX	PB	SWB	USW
GENERIC NAME OF ONA SERVICE							
Call Detail Recording Reports (Packet)	BSE	BSE		BSE		BSE	BSE
Call Redirection - Packet	BSE	BSE	BSE	BSE	BSE	BSE	BSE
Closed User Groups - Packet	BSE	BSE	BSE	BSE	BSE	BSE	BSE
Direct Call - Packet			BSE	BSE			
Fast Select Acceptance - Packet	BSE	BSE	BSE	BSE	BSE	BSE	BSE
Fast Select Request - Packet			BSE	BSE	BSE	BSE	BSE
Hunt Groups - Packet	BSE	BSE	BSE	BSE	BSE	BSE	BSE
Menu Access Translator- Gateway							BSE
Message Waiting Indicator - Packet Access						BSE	
Preselection for Data Services		BSE	BSE	BSE	BSE		
Reverse Charge Acceptance - Packet	BSE	BSE	BSE	BSE	BSE	BSE	BSE
Route Diversity	BSE					BSE	

CATEGORY 2, TYPE B - X.75 PACKET SWITCHED BSA	AM	BA	BS	NX	PB	SWB	USW
GENERIC NAME OF ONA SERVICE							
Call Detail Recording Reports (Packet)	BSE	BSE		BSE		BSE	BSE
Call Redirection - Packet				BSE	BSE	BSE	BSE
Closed User Groups - Packet	BSE	BSE	BSE	BSE	BSE	BSE	BSE
Fast Select Acceptance - Packet	BSE	BSE	BSE	BSE	BSE	BSE	BSE
Fast Select Request - Packet			BSE	BSE	BSE	BSE	BSE
Hunt Groups - Packet		BSE		BSE	BSE	BSE	
Menu Access Translator- Gateway							BSE
Message Waiting Indicator - Packet Access						BSE	
Preselection for Data Services		BSE	BSE	BSE	BSE		
Reverse Charge Acceptance - Packet		BSE	BSE	BSE	BSE	BSE	BSE
Route Diversity	BSE					BSE	

CATEGORY 3, TYPE A - DEDICATED METALLIC BSA	AM	BA	BS	NX	PB	SWB	USW
GENERIC NAME OF ONA SERVICE							
Bridging		BSE		BSE	BSE	BSE	BSE
Route Diversity		BSE		BSE		BSE	

CATEGORY 3, TYPE B - DEDICATED TELEGRAPH BSA	AM	BA	BS	NX	PB	SWB	USW
GENERIC NAME OF ONA SERVICE							
Bridging		BSE		BSE	BSE		BSE
Route Diversity		BSE		BSE			

CATEGORY 3, TYPE C - DEDICATED VOICE GRADE BSA	AM	BA	BS	NX	PB	SWB	USW
GENERIC NAME OF ONA SERVICE							
Bridging	BSE	BSE	BSE	BSE	BSE	BSE	BSE
Conditioning	BSE	BSE	BSE	BSE	BSE	BSE	BSE
Network Reconfiguration				BSE	BSE		
Route Diversity	BSE	BSE		BSE		BSE	

CATEGORY 3, TYPE D - DEDICATED PROGRAM AUDIO BSA	AM	BA	BS	NX	PB	SWB	USW
GENERIC NAME OF ONA SERVICE							
Bridging	BSE	BSE	BSE	BSE	BSE	BSE	BSE
Route Diversity	BSE	BSE				BSE	

CATEGORY 3, TYPE E - DEDICATED VIDEO BSA	AM	BA	BS	NX	PB	SWB	USW
GENERIC NAME OF ONA SERVICE							
Route Diversity	BSE	BSE				BSE	

CATEGORY 3, TYPE F - DEDICATED DIGITAL (< 64 kbps) BSA	AM	BA	BS	NX	PB	SWB	USW
GENERIC NAME OF ONA SERVICE							
Access To Operations Support Systems Information			BSE				
Automatic Protection Switching		BSE	BSE	BSE	BSE		BSE
Bridging	BSE	BSE	BSE	BSE	BSE	BSE	BSE
Network Reconfiguration				BSE	BSE		
Route Diversity	BSE	BSE		BSE		BSE	
Secondary Channel Capability	BSE	BSE	BSE	BSE	BSE	BSE	BSE
Statistical Multiplexer		BSE					

CATEGORY 3, TYPE G - DEDICATED HIGH CAPACITY DIGITAL (1.544 Mbps) BSA	AM	BA	BS	NX	PB	SWB	USW
GENERIC NAME OF ONA SERVICE							
Access To Clear Channel Transmission	BSE	BSE	BSA	BSE	BSE	BSE	BSE
Automatic Protection Switching	BSE	BSE	BSE	BSE	BSE	BSE	BSE
Extended Superframe Conditioning	BSE	BSA	BSA	BSA		BSE	BSA
Network Reconfiguration	BSE	BSE		BSE	BSE	BSE	BSE
Route Diversity	BSE	BSE		BSE		BSE	

CATEGORY 3, TYPE H - DEDICATED HIGH CAPACITY DIGITAL (> 1.544 Mbps) BSA	AM	BA	BS	NX	PB	SWB	USW
GENERIC NAME OF ONA SERVICE							
Automatic Protection Switching		BSE	BSE	BSE	BSE	BSE	
Network Reconfiguration			BSE	BSE	BSE		BSE
Route Diversity	BSE	BSE		BSE		BSE	

CATEGORY 3, TYPE I - DEDICATED ALERT TRANSPORT BSA	AM	BA	BS	NX	PB	SWB	USW
GENERIC NAME OF ONA SERVICE							
Route Diversity		BSE		BSE			
Verify Integrity of Subscriber Lines				BSA	BSE		

CATEGORY 3, TYPE J - DEDICATED DERIVED CHANNEL BSA	AM	BA	BS	NX	PB	SWB	USW
GENERIC NAME OF ONA SERVICE							
Data Over Voice (DOV) Service		BSA		BSA			BSA
Route Diversity		BSE		BSE		BSE	

CATEGORY 3, TYPE K - DEDICATED DIGITAL (64 Kbps) BSA	AM	BA	BS	NX*	PB	SWB	USW
GENERIC NAME OF ONA SERVICE							
Route Diversity	BSE						

* NYNEX note: NYNEX offers 64 Kbps service associated with the Dedicated High Capacity Digital (1.544 Mbps) BSA.

CATEGORY 4 - DEDICATED NETWORK ACCESS LINK BSA	AM	BA	BS	NX*	PB	SWB	USW
GENERIC NAME OF ONA SERVICE							
Calling Directory Number Delivery - via BCLID		BSE	BSE		BSE		BSE
Make Busy Key	BSE	BSE	BSE	BSE	BSE	BSE	BSE
Message Desk (SMDI)	BSE	BSE	BSE	BSE	BSE	BSE	BSE
Message Desk (SMDI) - Expanded	BSE					BSE	BSE
Message Waiting Indicator - Activation (Audible)	BSE	BSE	BSE	BSE	BSE		BSE
Message Waiting Indicator - Activation (Audible) - Expanded	BSE						BSE
Message Waiting Indicator - Activation (Visual)			BSE		BSE		BSE
Network Reconfiguration	BSE	BSE	BSE	BSE	BSE		BSE
Route Diversity	BSE	BSE				BSE	
Verify Integrity of Subscriber Lines	BSE				BSE		

* NYNEX note: NYNEX offers dedicated channels for specific network information or network control information as part of the appropriate BSA or BSE that provides the specific capability.

Attachment 4

APPENDICES A, B AND C

BELL OPERATING COMPANIES

ONA Special Report #5 Update

Appendix A & Appendix B

SEPTEMBER 30, 1999

1. APPENDIX A: RELATIONSHIP BETWEEN ESP REQUESTS FOR NETWORK CAPABILITIES AND ONA SERVICES 4

1. CALL FORWARDING BUSY LINE/DON'T ANSWER 5
2. ACTIVATION OF CALL FORWARDING VARIABLE WITHOUT CALL COMPLETION 5
3. CALL FORWARD DON'T ANSWER INTEROFFICE 5
4. MULTIPLE CALLS FORWARDED TO DID INTEROFFICE 5
5. CALL FORWARDING WITH STATUS INFORMATION TO ANSWERING BUREAU 5
6. ACTIVATION OF CALL FORWARDING VARIABLE WITH CALL COMPLETION 5
7. CALL FORWARDING WITH CALL SCREENING. 5
8. CALL FORWARDING WITH CALL WAITING 5
9. CALL FORWARDING WITH CALLED AND CALLING NUMBER 6
10. CALL FORWARD DON'T ANSWER WITH VARIABLE RING COUNTS 6
11. CUSTOMER CONTROL OF CFBL/CFDA 6
12. MONITOR & BARGE IN 6
13. SMDI 6
14. SMDI WITH AUTOMATIC RINGBACK 6
15. 3-WAY CALL TRANSFER 6
16. SPEED CALLING 6
17. REMOTE ACTIVATION OF CUSTOM CALLING SERVICES 7
18. ESP NOTIFICATION OF ESP'S CLIENT OR BOC CONTROL ACTION 7
19. CALL DISTRIBUTION FUNCTIONS INCLUDING QUEUE 7
20. DERIVED LOCAL CHANNELS 7
21. SCREENING 7
22. CALLING DIRECTORY NUMBER DELIVERY 7
23. DELIVERY OF DIALED NUMBER 7
24. UNIFORM ABBREVIATED DIALING 8
25. MULTILINE HUNT GROUPS 8
26. UNLIMITED SIZE HUNT GROUPS 8
27. INDIVIDUAL ACCESS TO EACH PORT IN A HUNT GROUP 8
28. CLASS FEATURES INTEROFFICE 8
29. SUPPRESSED RINGING 8
30. TRUNK SIDE ACCESS 8
31. TRUNK SIDE CONNECTION WITH POWER RINGING 9
32. ACCESS TO EXTENDED SUPERFRAME DATA CHANNEL 9
33. TRUNK GROUP MAKE BUSY 9
34. MESSAGE WAITING INDICATION 9
35. ANSWER SUPERVISION (CONNECT/DISCONNECT INDICATIONS) - LINE SIDE 9
36. NIGHT TRANSFER 9
37. FASTER SIGNALING ON DID 9
38. POST DIALING DTMF SIGNALING FROM PAYSTATIONS 9
39. SELECTED NUMBER REVERSE BILLING RATE PERIOD SPECIFIC 10
40. SINGLE NUMBER ACCESS FOR MULTIPLE LOCATIONS 10
41. ABILITY TO NOTIFY OR INTERRUPT A CUSTOMER 10
42. ABILITY TO RETURN HELD CALL TO CUSTOMER 10
43. INTERCONNECTION FOR SPECIALIZED TERMINAL EQUIPMENT 10
44. PROVISION FOR SHARING AN ESP CLIENT AMONG ESPS 10
45. CUSTOM SERVICE AREAS 10
46. STATISTICAL MULTIPLEXER AT CENTRAL OFFICE 11
47. X.25 INTERFACE TO PACKET SWITCH 11
48. X.75 INTERFACE TO PACKET SWITCH 11
49. ACCESS TO DATA SERVICES 11
50. B-CHANNEL SWITCHED AND DEDICATED ACCESS 11
51. D-CHANNEL DATA DELIVERED ON B-CHANNEL 11

52. MULTIPLE D-CHANNELS ON B-CHANNEL 11
53. ESP ACCESS TO D-CHANNEL SIGNALING 11
54. FEATURE NODE SERVICE INTERFACE (FN/SI) 11
55. SERVICE CONTROL POINT (SCP) DATABASES 11
56. TERM SETS AND INBAND SIGNALING ON ANALOG CHANNELS 11
57. ACCESS TO FUTURE INTELLIGENT FUNCTIONS OF ISDN 12
58. COMPATIBILITY TO EXISTING TERMINALS 12
59. MAPPING ANI TO USER ID (X.75) 12
60. CALLS ACCEPTED WITH BOC'S DNIC OR ESP'S DNIC 12
61. EQUAL ACCESS TO EXCHANGE NETWORK SWITCHING AND TRANSMISSION 12
62. PEAK TRAFFIC HANDLING WITHIN EXCHANGE NETWORK 12
63. ESP DEFINED DYNAMIC ROUTING 12
64. COMMON CHANNEL SIGNALING ACCESS 12
65. DYNAMIC ALLOCATION OF TRANSMISSION CAPACITY 12
66. PROVISION OF BOC NETWORK STATUS INFORMATION. 12
67. REAL TIME ACCESS TO EXCHANGE NETWORK TESTING FACILITIES 13
68. DERIVED CHANNELS THAT COMPLY WITH UL AND NFPA 13
69. ONE WAY ALARM TRANSMISSION 13
70. DERIVED CHANNELS COMPATIBLE WITH ISDN 13
71. DIGITAL PRIVATE LINES (DDS) 13
72. DIAGNOSTIC CHANNEL ON DS0 AND SUBRATE LINES 13
73. ERROR DETECTION / ERROR CORRECTION 13
74. ABILITY TO DETECT BREAKS IN TELCO LINE WITHIN 60 SECONDS 13
75. BROADBAND LINK(S) FOR VIDEO TRANSMISSION 14
76. ABILITY TO RECONFIGURE NETWORKS 14
77. ROUTE DIVERSITY 14
78. AUTOMATIC PROTECTION SWITCHING 14
79. PRIVATE LINE CONDITIONING 14
80. MULTIPLE MONITORS PER LOOP 14
81. CLEAR ACCESS TO DATA PORTION OF DERIVED CHANNELS 14
82. DISTINCTIVE RINGING 14
83. 4-WIRE INTERCONNECTION/SWITCHING 15
84. ACCESS TO CLEAR CHANNEL TRANSMISSION 15
85. USER INITIATED DIAGNOSTICS 15
86. PASS THROUGH DIAGNOSTICS TO USER 15
87. INBAND SIGNALING 15
88. BRIDGING 15
89. MONTHLY DETAILED RECORDING 15
90. AUTOMATIC DISABLEMENT OF CALL WAITING TONE DURING DIAL-UP DATA CALL 15
91. ENABLE / DISABLE NETWORK DTMF SIGNALING 15
92. PASSIVE IN-BAND DTMF TONE TRANSMISSION 16
93. EXTEND DTMF TONE SET 16
94. TONE TO DIGITAL TRANSLATION 16
95. MULTIPLE CALL FORWARDING 16
96. VIRTUAL DIAL TONE 16
97. REMOTE ACCESS TO USER PROGRAMMABLE FUNCTIONS (PACKET) 16
98. REMOTE SPEED CALL MENU BUILDER (PACKET) 16
99. SPEED CALL MENU BUILDER (PACKET) 16
100. REMOTE SPEED CALL MENU ACCESS TRANSLATOR (PACKET) 16
101. CARRIER SELECTION ON REVERSE CHARGE 16
102. NETWORK CONTROL BY CUSTOMER FROM CUSTOMER PREMISES 17
103. REAL TIME TRAFFIC USAGE DATA 17
104. CENTRAL OFFICE ANNOUNCEMENTS 17
105. NAME & ADDRESS OF THE CALLING PARTY 17

106. SUPPRESSION OF AUDIBLE CLICK ON CALL FORWARDING (INTEROFFICE) 17
107. BILLING NUMBER DELIVERY 17
108. PRIVACY (CLASSES OF NON-PUBLISHED SERVICE) 17
109. DELIVERY OF TRAVELING CLASS MARK 17
110. USER ID ASSOCIATED WITH CALLING NUMBER AND/OR SERVICE ID CODE 17
111. WARM LINE 17
112. CLOSED USER GROUP (PACKET) 18
113. FAST SELECT (PACKET) 18
114. HUNT GROUP (PACKET) 18
115. CALL REDIRECTION (PACKET) 18
116. DIRECT CALL (PACKET) 18
117. PROGRAMMED DEFAULT CALL FORWARDING 18
118. RESTRICTION OF OUTGOING CALLS (PACKET) 18

APPENDIX B: INDIVIDUAL REGIONAL COMPANY RESPONSES TO THE 118 ESP REQUESTS 19

1. Appendix A: Relationship Between ESP Requests for Network Capabilities and ONA Services

The FCC, in its December 22, 1989 Memorandum, Opinion and Order, recognized the 118 requests for network capabilities included in BOC Special Report Number 1 as the nationally received requests. Not all of these requests are for particular services. For example, some are for attributes that a service should contain; some are for a service to operate in a particular manner. As a result, some ONA services offered meet a number of network capability requests, while some requests are met by a number of ONA services. There is not a one-for-one relationship between network capability requests and ONA services. In addition, some ONA services may be offered by some regional companies as both a BSE and a CNS, depending on the line that the service is applied to.

The following appendix shows the relationship between each of the requested network capabilities, other requested network capabilities and ONA services. The ONA services listed use the Uniform Names developed by the regional companies and contributed to the IILC Issue 006 ONA Services User Guide Task Group.

Following this Appendix A is a summary table (Appendix B) arranged to be similar to Appendix E of the FCC's December 22, 1988 Memorandum Opinion and Order.

1. Call Forwarding Busy Line/Don't Answer

This is a request for a service. It is being met by some regional companies by offering the following ONA services:

- Call Forwarding - Busy Line Intraswitch
- Call Forwarding - Busy Line Interswitch
- Call Forwarding - Don't Answer Intraswitch
- Call Forwarding - Don't Answer Interswitch

2. Activation Of Call Forwarding Variable Without Call Completion

This is a request for an attribute of service. It is being met by some regional companies by offering the following ONA service:

- Call Forwarding - Variable - Activation Without Courtesy Call

3. Call Forward Don't Answer Interoffice

This request relates to request number 1. It is being met by offering the following ONA service:

- Call Forwarding - Don't Answer Interswitch

4. Multiple Calls Forwarded To DID Interoffice

This is a request for a particular application of a service. It is being met by some regional companies by offering the following service:

- Call Forwarding - Multiple Simultaneous Calls Interswitch

5. Call Forwarding With Status Information To Answering Bureau

This request is for a particular application of a service. It is being met by some regional companies by offering the following service:

- Message Desk (SMDI)
- Message Desk (SMDI) - Expanded

6. Activation of Call Forwarding Variable With Call Completion

This request is for a service. It is being met by offering the following service:

- Call Forwarding - Variable

7. Call Forwarding With Call Screening.

This is a request for a service. It is being met by some regional companies by offering the following ONA service:

- Selective Call Forwarding

8. Call Forwarding With Call Waiting

This is a request for two services to interact in a particular manner. It is met by some regional companies by offering the following ONA service:

- Call Forwarding Don't Answer After Call Waiting (CFDA After CW)